Globally Harmonized System of Classification and Labelling of Chemicals (GHS)

eConduct Aluminium 202000

Version 3.0

Revision Date 06.12.2019

Print Date 18.02.2022

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

| Trade name | | е |
|-----------------|---|---|
| Trade fiame | • | C |
| Material number | | 0 |
| | | 0 |

: eConduct Aluminium 202000 : 020764B20

1.2 Relevant identified uses of the substance or mixture and uses advised against

This information is not available.

1.3 Details of the supplier of the safety data sheet

| Company | : ECKART GmbH |
|----------------------------|--------------------------|
| | Guentersthal 4 |
| | 91235 Hartenstein |
| Telephone | : +499152770 |
| Telefax | : +499152777008 |
| E-mail address | : msds.eckart@altana.com |
| Responsible/issuing person | |

1.4 Emergency telephone number

NCEC: (contract no.: ECKART29003-NCEC) +44 1235 239671 (Middle East/Africa, call and response in your language) +1 215 207 0061 (Americas, call and response in your language) +65 3158 1074 (Asia-Pacific, call and response in your language)

SECTION 2: Hazards identification

GHS Classification

: Short-term (acute) aquatic hazard, Category 1, H400 Long-term (chronic) aquatic hazard, Category 1, H410

| Page 1 / 21 | 102000022007 | A member of C ALTANA |
|-------------|--------------|-----------------------------|
|-------------|--------------|-----------------------------|



Globally Harmonized System of Classification and Labelling of Chemicals (GHS)



| rsion 3.0 | Revision Date | 06.12.2019 | Print Date 18.02.202 |
|-------------------------------------------------------|----------------------------------------|----------------------------------------------------------------|----------------------------------------------------|
| Information concerning pa hazards for human and en | | ase refer to our websit ety instructions for han | e for further important dling aluminium powder: |
| | • | ://www.eckart.net/filea upulver_Safety_engl.p | dmin/eckart/Service/GDA df |
| GHS-Labelling | | | |
| Symbol(s) | : | | |
| Signal word | : Warning | | |
| Hazard statements | : H410: Very toxi | c to aquatic life with lo | ng lasting effects. |
| Precautionary statements | Response: P391 Collect Disposal: | elease to the environm spillage. e of contents/ containe | nent. er to an approved waste |
| Hazardous components w | nich must be listed | on the label | |

Combustible Solids

SECTION 3: Composition/information on ingredients

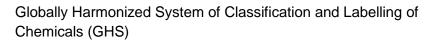
:

Substance name

: Versuch 83000391 eConduct Aluminium 202000

Substance No.

| Page 2 / 21 | 102000022007 | A member of 🜔 ALTANA |
|-------------|--------------|----------------------|
| | | |



eConduct Aluminium 202000

Version 3.0

Revision Date 06.12.2019

Print Date 18.02.2022

Hazardous components

| Chemical name | CAS-No. EINECS-No. | Classification and labelling | Concentration[%] |
|-------------------------------|------------------------|---------------------------------------------------|------------------|
| aluminium powder (stabilised) | 7429-90-5 231-072-3 | Flam. Sol.;1;H228 | 50 - 100 |
| silver | 7440-22-4 231-131-3 | Aquatic Acute;1;H400 Aquatic Chronic;1;H410 | 20 - 25 |
| silicon dioxide | 7631-86-9 231-545-4 | Acute Tox.;5;H303 | 1 - 10 |

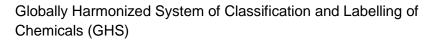
For the full text of the H-Statements mentioned in this Section, see Section 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

| General advice | : Move the victim to fresh air. |
|-------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| | No hazards which require special first aid measures. |
| If inhaled | If unconscious, place in recovery position and seek medical advice. If symptoms persist, call a physician. |
| In case of skin contact | : Wash off immediately with soap and plenty of water. |
| In case of eye contact | Flush eyes with water as a precaution. Remove contact lenses. Keep eye wide open while rinsing. If eye irritation persists, consult a specialist. |
| If swallowed | : Keep respiratory tract clear. |
| Page 3 / 21 | A member of C ALTANA |







eConduct Aluminium 202000

| Version 3.0 | Revision Date 06.12.2019 | Print Date 18.02.2022 |
|-------------|--------------------------|-----------------------|
| | | |

Do not give milk or alcoholic beverages. Never give anything by mouth to an unconscious person. If symptoms persist, call a physician.

4.2 Most important symptoms and effects, both acute and delayed

This information is not available.

4.3 Indication of any immediate medical attention and special treatment needed

This information is not available.

SECTION 5: Firefighting measures

5.1 Extinguishing media

| Suitable extinguishing media | : Dry sand, Special powder against metal fire |
|--------------------------------|-------------------------------------------------|
| Unsuitable extinguishing media | : ABC powder, Carbon dioxide (CO2), Water, Foam |

5.2 Special hazards arising from the substance or mixture

| Specific hazards during firefighting | : | Contact with water liberates extremely flammable gas (hydrogen). |
|-----------------------------------------------|---|---------------------------------------------------------------------------|
| | | Do not allow run-off from fire fighting to enter drains or water courses. |
| 5.3 Advice for firefighters | | |
| Special protective equipment for firefighters | : | Wear self-contained breathing apparatus for firefighting if necessary. |
| Further information | : | Collect contaminated fire extinguishing water separately. This |

| must not be discharged into drains. Fire residues and |
|--------------------------------------------------------------|
| contaminated fire extinguishing water must be disposed of in |
| accordance with local regulations. |
| |

| Page 4 / 21 102000022007 A member of C ALTA | NA |
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|-------------------------------------------------------------|----|

Globally Harmonized System of Classification and Labelling of Chemicals (GHS)



eConduct Aluminium 202000

Version 3.0

Revision Date 06.12.2019

Print Date 18.02.2022

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

| Personal precautions | : | Use personal protective equipment. Evacuate personnel to safe areas. Avoid dust formation. |
|-------------------------------|---|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 6.2 Environmental precautions | | |
| Environmental precautions | : | Prevent product from entering drains. Prevent further leakage or spillage if safe to do so. If the product contaminates rivers and lakes or drains inform |

respective authorities.

6.3 Methods and materials for containment and cleaning up

| Methods for cleaning up | : Use mechanical handling equipment. Do not use a vacuum cleaner. |
|-------------------------|-------------------------------------------------------------------------------|
| | Do not flush with water. Keep in suitable, closed containers for disposal. |

6.4 Reference to other sections

For personal protection see section 8.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

| Advice on safe handling | Avoid creating dust. Routine ho instituted to ensure that dusts d Keep away from heat and source For personal protection see see drinking should be prohibited in | to not accumulate on surfaces. ces of ignition. Do not smoke. ction 8. Smoking, eating and |
|-------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------|
| Page 5 / 21 | 102000022007 | A member of C ALTANA |

Globally Harmonized System of Classification and Labelling of Chemicals (GHS)

eConduct Aluminium 202000 Version 3.0 Revision Date 06.12.2019 Print Date 18.02.2022 of rinse water in accordance with local and national regulations. Advice on protection against : During processing, dust may form explosive mixture in air. fire and explosion Take measures to prevent the build up of electrostatic charge. Earthing of containers and apparatuses is essential. Use explosion-proof equipment. When transferring from one container to another apply earthing measures and use conductive hose material. Normal measures for preventive fire protection. Hygiene measures : Wash hands before breaks and at the end of workday. 7.2 Conditions for safe storage, including any incompatibilities Requirements for storage : Reaction with water liberates extremely flammable gas areas and containers (hydrogen) Store in original container. Keep containers tightly closed in a cool, well-ventilated place. Keep container closed when not in use. Keep away from sources of ignition - No smoking. Keep container tightly closed in a dry and well-ventilated place. Electrical installations / working materials must comply with the technological safety standards. Further information on : Protect from humidity and water. storage conditions : Do not store together with oxidizing and self-igniting products. Advice on common storage Never allow product to get in contact with water during storage. Keep away from oxidizing agents, strongly alkaline

Other data Keep in a dry place. No decomposition if stored and applied as directed.

reactions.

and strongly acid materials in order to avoid exothermic

7.3 Specific end use(s)

| Page 6 / 21 | 102000022007 | A member of C ALTANA |
|-------------|--------------|----------------------|
|-------------|--------------|----------------------|



Globally Harmonized System of Classification and Labelling of Chemicals (GHS)

eConduct Aluminium 202000

Version 3.0

Revision Date 06.12.2019

Print Date 18.02.2022

This information is not available.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Germany:

| Components | CAS-No. | Value type (Form of exposure) | Control parameters | Update | Basis |
|--------------------------------------------|-----------|--------------------------------------------------------------------------------------------------------------------|--------------------------------------------------|------------|-----------------------|
| aluminium powder (stabilised) | 7429-90-5 | AGW (Inhalable fraction) | 10 mg/m3 | 2014-04-02 | DE TRGS 900 |
| Peak-limit: excursion factor (category) | | 2;(II) | • | | |
| Further inform | ation | | dangerous substar ounds at the work p on). | | |
| aluminium powder (stabilised) | 7429-90-5 | AGW (Alveolate fraction) | 1,25 mg/m3 | 2014-04-02 | DE TRGS 900 |
| Peak-limit: exc factor (categor | | 2;(II) | | | |
| Further information | | | dangerous substar ounds at the work p on). | | |
| silver | 7440-22-4 | TWA | 0,1 mg/m3 | 2000-06-16 | 2000/39/EC |
| Further inform | ation | Indicative | l | 1 | ł |
| silver | 7440-22-4 | AGW (Inhalable fraction) | 0,1 mg/m3 | 2006-01-01 | DE TRGS 900 |
| Peak-limit: exc factor (categor | | 8;(II) | · | · | |
| Further inform | ation | Senate commission for the review of compounds at the work place dangerous for the health (MAK-commission).European | | | |
| e 7 / 21 | | 1020 | 00022007 | A mem | per of C ALTAN |





Globally Harmonized System of Classification and Labelling of Chemicals (GHS)

eConduct Aluminium 202000

Version 3.0

Revision Date 06.12.2019

Print Date 18.02.2022

| | | Union (The EU has established a limit value: deviations in value and peak limit are possible) | | | |
|--------------------|-----------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|------------|--------------------------------------------|
| silver | 7440-22-4 | TWA | 0,01 mg/m3 | 2006-02-09 | 2006/15/EC |
| Further informa | ation | Indicative | | | |
| silicon dioxide | 7631-86-9 | AGW (Inhalable fraction) | 4 mg/m3 | 2013-09-19 | DE TRGS 900 |
| Further informa | ation | Senate commission for the review of compounds at the work place dangerous for the health (MAK-commission).Colloidal amorphous silica, including pyrogenic silica and in wet processe manufactured silica (precipitated silica, silicagel).When there is compliance with the OEL and biological tolerance values, there no risk of harming the unborn child | | | Colloidal vet processes nen there is |

United States of America (USA):

| Components | CAS-No. | Value type (Form of exposure) | Control parameters | Update | Basis |
|-------------------------------------|-----------|-------------------------------------|----------------------------------------|------------|-------|
| aluminium powder (stabilised) | 7429-90-5 | TWA (total dust) | 50 Million particles per cubic foot | 2012-07-01 | |
| aluminium powder (stabilised) | 7429-90-5 | TWA (Respirable) | 5 mg/m3 | 2013-10-08 | |
| aluminium powder (stabilised) | 7429-90-5 | TWA (total dust) | 15 mg/m3 | 2012-07-01 | |
| aluminium powder (stabilised) | 7429-90-5 | TWA (total) | 10 mg/m3 | 2013-10-08 | |
| aluminium powder (stabilised) | 7429-90-5 | TWA (respirable fraction) | 5 mg/m3 | 2012-07-01 | |
| aluminium powder (stabilised) | 7429-90-5 | TWA (respirable fraction) | 15 Million particles per cubic foot | 2012-07-01 | |
| aluminium | 7429-90-5 | PEL (Total dust) | 10 mg/m3 | 2014-11-26 | |

| Page 8 / 21 | 102000022007 | A member of C ALTANA |
|-------------|--------------|-----------------------------|
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Globally Harmonized System of Classification and Labelling of Chemicals (GHS)

eConduct Aluminium 202000

Version 3.0

Revision Date 06.12.2019

Print Date 18.02.2022

| powder (stabilised) | | | | | |
|---------------------------|------------|--------------------------------|-------------------------|------------|--|
| aluminium powder | 7429-90-5 | PEL (respirable dust fraction) | 5 mg/m3 | 2014-11-26 | |
| (stabilised) | | | | | |
| aluminium | 7429-90-5 | TWA | 1 mg/m3 | 2008-01-01 | |
| powder | | (Respirable | | | |
| (stabilised) | | fraction) | | | |
| aluminium | 7429-90-5 | TWA | 5 mg/m3 | 2005-09-01 | |
| powder | | | | | |
| (stabilised) | | | | | |
| aluminium | 7429-90-5 | TWA (Total) | 15 mg/m3 | 1989-01-19 | |
| powder | | | | | |
| (stabilised) | | | | | |
| aluminium | 7429-90-5 | TWA | 5 mg/m3 | 1989-01-19 | |
| powder | | (Respirable | | | |
| (stabilised) | | fraction) | | | |
| aluminium | 7429-90-5 | TWA (total dust) | 15 mg/m3 | 2011-07-01 | |
| powder | | | | | |
| (stabilised) | | | | | |
| aluminium | 7429-90-5 | TWA (respirable | 5 mg/m3 | 2011-07-01 | |
| powder | | fraction) | | | |
| (stabilised) | | | | | |
| aluminium | 7429-90-5 | TWA (Total | 15 mg/m3 | 1989-01-19 | |
| powder | | dust) | | | |
| (stabilised) | - 100 00 - | | . | 4000.04.40 | |
| aluminium | 7429-90-5 | TWA (respirable dust fraction) | 5 mg/m3 | 1989-01-19 | |
| powder | | dust fraction) | | | |
| (stabilised) | 7400.00.5 | T) A/ A (used alians | 5 m m/m 2 | 2013-10-08 | |
| aluminium | 7429-90-5 | TWA (welding fumes) | 5 mg/m3 | 2013-10-08 | |
| powder (stabilized) | | iumes) | | | |
| (stabilised) aluminium | 7429-90-5 | TWA (pyro | 5 mg/m3 | 2013-10-08 | |
| powder | 1429-90-5 | powders) | 5 mg/ms | 2013-10-00 | |
| (stabilised) | | | | | |
| aluminium | 7429-90-5 | TWA | 1 mg/m3 | 2013-03-01 | |
| powder | 1429-90-0 | (Respirable | i ilig/ilio | 2013-03-01 | |
| (stabilised) | | fraction) | | | |
| (Stabilised) | | ' | | | |

| A member of C ALTANA |
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Globally Harmonized System of Classification and Labelling of Chemicals (GHS)

eConduct Aluminium 202000

Version 3.0

Revision Date 06.12.2019

Print Date 18.02.2022

| aluminium powder (stabilised) | 7429-90-5 | TWA (Fumes) | 5 mg/m3 | 1989-01-19 |
|-------------------------------------|-----------|-----------------------|-------------------------------------|------------|
| aluminium powder (stabilised) | 7429-90-5 | PEL (Welding fumes) | 5 mg/m3 | 2017-10-02 |
| aluminium powder (stabilised) | 7429-90-5 | PEL (Pyro powders) | 5 mg/m3 | 2017-10-02 |
| silver | 7440-22-4 | TWA | 0,1 mg/m3 | 2008-01-01 |
| silver | 7440-22-4 | TWA (Dust) | 0,01 mg/m3 | 2005-09-01 |
| silver | 7440-22-4 | TWA | 0,01 mg/m3 | 1989-01-19 |
| silver | 7440-22-4 | TWA | 0,01 mg/m3 | 1989-01-19 |
| silver | 7440-22-4 | TWA | 0,01 mg/m3 | 2011-07-01 |
| silver | 7440-22-4 | TWA (Dust and fume) | 0,1 mg/m3 | 2013-03-01 |
| silver | 7440-22-4 | TWA (Dust) | 0,01 mg/m3 | 2013-10-08 |
| silver | 7440-22-4 | PEL | 0,01 mg/m3 | 2014-11-26 |
| silicon dioxide | 7631-86-9 | TWA (Dust) | 20 Million particles per cubic foot | 2012-07-01 |
| silicon dioxide | 7631-86-9 | TWA (Dust) | 80 mg/m3 / %SiO2 | 2012-07-01 |
| silicon dioxide | 7631-86-9 | TWA | 6 mg/m3 | 2013-10-08 |
| silicon dioxide | 7631-86-9 | PEL | 6 mg/m3 | 2014-11-26 |

8.2 Exposure controls

Personal protective equipment

| Page 10 / 21 | 102000022007 | A member of 🜔 ALTANA |
|--------------|--------------|----------------------|
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Globally Harmonized System of Classification and Labelling of Chemicals (GHS)

| ersion 3.0 | | Revision Date 06.12.2019 | Print Date 18.02.20 |
|-------------------------------------------------|--------|-----------------------------------------------------------------------------------------------------------------------------------|---------------------------|
| Eye protection | : | Safety glasses | |
| Hand protection | | | |
| Material | : | Leather | |
| Glove length | : | Long sleeve gloves | |
| Remarks | : | Leather gloves The choice of an appropriate glove its material but also on other quality from one producer to the other. | |
| | : | The suitability for a specific workpla with the producers of the protective | |
| Skin and body protection | : | Lab coat | |
| | : | Dust impervious protective suit Choose body protection according t concentration of the dangerous sub | |
| Respiratory protection | : | Use suitable breathing protection if requires. Breathing apparatus with filter. P1 filter | workplace concentration |
| Environmental exposure General advice | contro | bls | |
| | : | Prevent product from entering drain Prevent further leakage or spillage i | if safe to do so. |
| | | If the product contaminates rivers a 102000022007 | nd lakes or drains inform |

Globally Harmonized System of Classification and Labelling of Chemicals (GHS)



| eConduct Aluminium 20 | 02000 |
|-----------------------|-------|
|-----------------------|-------|

| Version 3.0 | Revision Date 06.12.2019 | Print Date 18.02.2022 |
|-------------|-------------------------------------------------------------|-----------------------|
| | | |
| | respective authorities. | |
| Water | : The product should not be allowed to courses or the soil. | enter drains, water |
| | : | |

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

| Appearance | : powder | |
|------------------------------------------|----------------------------------|--|
| Colour | : silver | |
| Odour | : No data available | |
| рН | : No data available | |
| Melting point/range | : 660 °C | |
| Boiling point/boiling range | : No data available | |
| Flash point | : No data available | |
| Bulk density | : No data available | |
| Flammability (solid, gas) | : Combustible Solids | |
| Auto-flammability | : No data available | |
| Upper explosion limit | : No data available | |
| | | |
| Lower explosion limit | : 30 g/m3 | |
| Lower explosion limit Vapour pressure | : 30 g/m3 : No data available | |
| | - | |
| Vapour pressure | : No data available | |

| Page 12 / 21 | 102000022007 | A member of 🜔 ALTANA |
|--------------|--------------|--------------------------------------------|
| | | CONTRACTOR AND CONTRACTORY FOR DEVELOPMENT |

Globally Harmonized System of Classification and Labelling of Chemicals (GHS)

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eConduct Aluminium 202000

| Version 3.0 | Revision Date 06.12.2019 | Print Date 18.02.202 |
|----------------------------------------------------------|----------------------------|----------------------|
| | | |
| Miscibility with water | : No data available | |
| Solubility in other solvents | : No data available | |
| Partition coefficient: n-octanol | /water : No data available | |
| Ignition temperature | : No data available | |
| Thermal decomposition | : No data available | |
| Viscosity, dynamic | : No data available | |
| Viscosity, kinematic | : No data available | |
| Flow time | : No data available | |
| 9.2 Other information | | |
| Self-Accelerating decomposition temperature (SADT) | : No data available | |
| Self-heating substances | : No data available | |
| Heat of combustion | : No data available | |
| Impact sensitivity | : No data available | |
| Surface tension | : No data available | |
| Conductivity | : No data available | |
| Sublimation point | : No data available | |
| Molecular weight | : No data available | |

SECTION 10: Stability and reactivity

10.1 Reactivity

No decomposition if stored and applied as directed.

| Page 13 / 21 10 | 07 A member of C ALTANA |
|-----------------|--------------------------------|
|-----------------|--------------------------------|

Globally Harmonized System of Classification and Labelling of Chemicals (GHS)



eConduct Aluminium 202000

| Version 3.0 | Revision Date 06.12.2019 | Print Date 18.02.2022 |
|-------------|--------------------------|-----------------------|
| | | |

10.2 Chemical stability

No decomposition if stored and applied as directed.

| 10.3 Possibility of hazardous re | actions |
|----------------------------------|--------------------------------------------------------|
| Hazardous reactions | : Contact with acids and alkalis may release hydrogen. |
| | Stable under recommended storage conditions. |
| | Dust may form explosive mixture in air. |
| 10.4 Conditions to avoid | |
| Conditions to avoid | : No data available |
| 10.5 Incompatible materials | |
| Materials to avoid | : Acids Bases Oxidizing agents Water |
| 10.6 Hazardous decomposition | products |
| Hazardous decomposition products | : No data available |
| Other information | : No data available |
| | -formation |

SECTION 11: Toxicological information

11.1 Information on toxicological effects

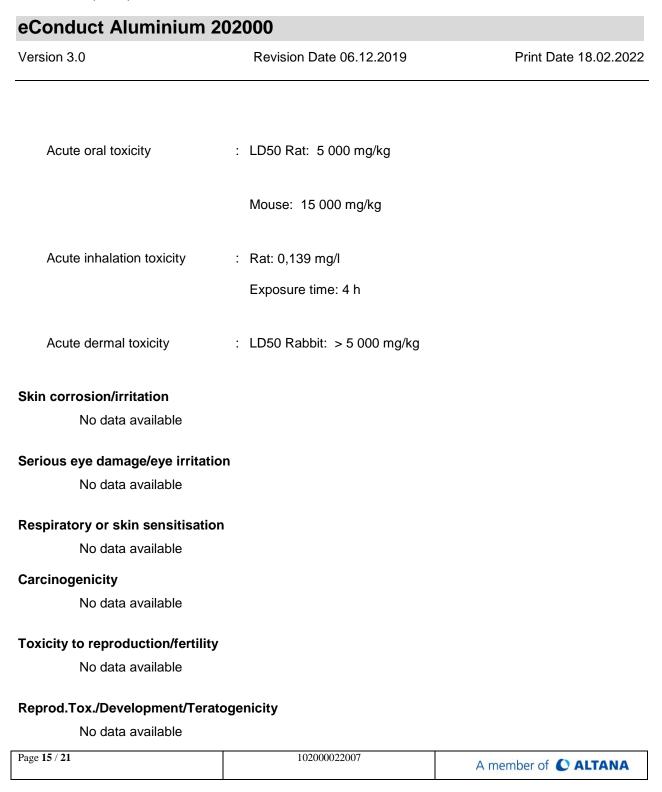
Acute toxicity

Components:

silicon dioxide :

| Page 14 / 21 | 102000022007 | A member of C ALTANA |
|--------------|--------------|-----------------------------|
| | | |

Globally Harmonized System of Classification and Labelling of Chemicals (GHS)



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Globally Harmonized System of Classification and Labelling of Chemicals (GHS)

eConduct Aluminium 202000

Version 3.0

Revision Date 06.12.2019

Print Date 18.02.2022

STOT - single exposure

No data available

STOT - repeated exposure

No data available

Aspiration toxicity

No data available

Further information

Product

No data available

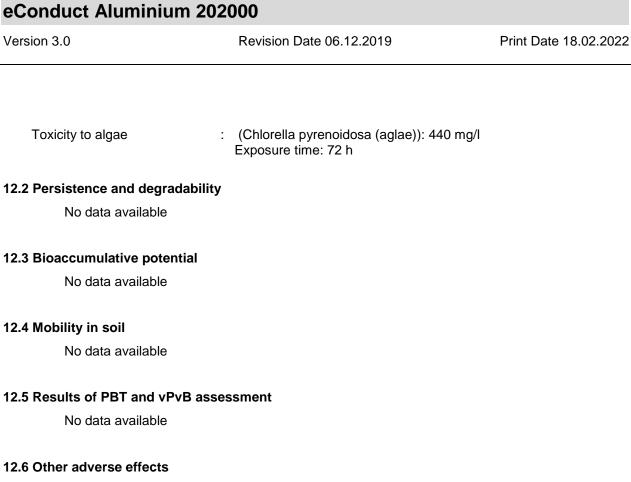
SECTION 12: Ecological information

12.1 Toxicity

| <u>Components:</u> silver (7440-22-4) : | | |
|-------------------------------------------------------------------------------|---------------------------------------|-----------------------------|
| M-Factor Ecotoxicology Assessment | : 10 | |
| Short-term (acute) aquatic hazard | : Very toxic to aquatic life. | |
| Long-term (chronic) aquatic hazard silicon dioxide (7631-86-9) : | : Very toxic to aquatic life with lor | ng lasting effects. |
| Toxicity to daphnia and other aquatic invertebrates | : (Daphnia (water flea)): 7 600 m | ng/l |
| Page 16 / 21 | 102000022007 | A member of C ALTANA |



Globally Harmonized System of Classification and Labelling of Chemicals (GHS)



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Product:

| Additional ecological | : | An environmental hazard cannot be excluded in the event of |
|-----------------------|---|------------------------------------------------------------------|
| information | | unprofessional handling or disposal., Very toxic to aquatic life |
| | | with long lasting effects. |

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product

: The product should not be allowed to enter drains, water courses or the soil.

 Page 17 / 21
 102000022007
 A member of C ALTANA



Globally Harmonized System of Classification and Labelling of Chemicals (GHS)

| eConduct Aluminium 202000 | | | |
|---------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|--|
| Version 3.0 | Revision Date 06.12.2019 Print Date 18.02 | | |
| | | | |
| | Do not contaminate ponds, waterwa chemical or used container. Send to a licensed waste managem In accordance with local and nationa | ient company. | |
| Contaminated packaging | Contaminated packaging : Empty remaining contents. Dispose of as unused product. Do not re-use empty containers. In accordance with local and national regulations. | | |

SECTION 14: Transport information

| 14.1 UN number | | |
|----------------------------|---------------------------------------------------------------------|-----------------------------|
| ADR | : 3077 | |
| TDG | | |
| Not dangerous goods | | |
| CFR | | |
| Not dangerous goods | | |
| IMDG | : 3077 | |
| ΙΑΤΑ | : 3077 | |
| 14.2 Proper shipping name | | |
| ADR | : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Silver) | |
| TDG | | |
| Not dangerous goods CFR | | |
| Not dangerous goods | | |
| IMDG | : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. | |
| Page 18 / 21 | 102000022007 | A member of C ALTANA |



Globally Harmonized System of Classification and Labelling of Chemicals (GHS)

| eConduct Aluminium 202000 | | | |
|------------------------------|---|------------------------------|-----------------------|
| Version 3.0 | | Revision Date 06.12.2019 | Print Date 18.02.2022 |
| | | | |
| | | | |
| | | (,Silver) | |
| ΙΑΤΑ | : | ENVIRONMENTALLY HAZARDOUS SI | UBSTANCE, SOLID, |
| | | (Silver) | |
| 14.3 Transport hazard class | | | |
| ADR | : | 9 | |
| TDG | | | |
| Not dangerous goods | | | |
| CFR | | | |
| Not dangerous goods | | | |
| IMDG | : | 9 | |
| ΙΑΤΑ | : | 9 | |
| 14.4 Packing group | | | |
| ADR | | | |
| Packaging group | : | III | |
| Classification Code | : | M7 | |
| Hazard Identification Number | : | 90 | |
| Labels | : | 9 | |
| TDG | | | |
| Not dangerous goods | | | |
| CFR | | | |
| Not dangerous goods | | | |
| IMDG | | | |
| Packaging group | : | III | |
| Labels | | 9 | |
| EmS Number | | F-A, S-F | |

| Page 19 / 21 | 102000022007 | A member of C ALTANA |
|--------------|--------------|----------------------|
|--------------|--------------|----------------------|



Globally Harmonized System of Classification and Labelling of Chemicals (GHS)

eConduct Aluminium 202000

| Version 3.0 | Revision Date 06.12.2019 | Print Date 18.02.2022 |
|-------------|--------------------------|-----------------------|
| | | |

ΙΑΤΑ

| Packing instruction (cargo aircraft) | : 956 |
|------------------------------------------|-----------------------------|
| Packing instruction (passenger aircraft) | : 956 |
| Packing instruction (LQ) | : Y956 |
| Packaging group | : 111 |
| Labels | : 9 |
| 14.5 Environmental hazards | |
| ADR | : Environmentally hazardous |

| IMDG | : Marine pollutant |
|------|--------------------|

14.6 Special precautions for user

For single packagings <=5L / 5 kg, or combination packagings containing inner packagings <= 5L / 5 kg net per inner packaging, SV375 ADR, 2.10.2.7 IMDG-Code, A197 IATA-DGR may be applied.

14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

No data available

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

REACH - Candidate List of Substances of Very High : Not applicable Concern for Authorisation (Article 59).

| Page 20 / 21 | 102000022007 | A member of C ALTANA |
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Globally Harmonized System of Classification and Labelling of Chemicals (GHS)

eConduct Aluminium 202000

Version 3.0

Revision Date 06.12.2019

Print Date 18.02.2022

15.2 Chemical safety assessment

No data available

SECTION 16: Other information

Full text of H-Statements

| H228 : | Flammable solid. |
|--------|-------------------------------------------------------|
| H303 : | May be harmful if swallowed. |
| H400 : | Very toxic to aquatic life. |
| H410 : | Very toxic to aquatic life with long lasting effects. |

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

| Page 21 / 21 | 102000022007 | A member of 🜔 ALTANA |
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